

**AMENDMENTS TO THE CLAIMS:**

Amend the claims as follows:

Claim 1-11. (Canceled)

12. (Withdrawn – Currently Amended) A microarray for detecting a dendritic cell comprising ~~a dendritic cell-specific nucleotide sequence~~ immobilized on a solid surface[[:]],

~~wherein said dendritic cell-specific nucleotide sequence is selected from the group consisting of the combination of~~ myosin phosphatase target subunit 1 gene, CD20-like precursor gene, Ig superfamily protein gene, glycoprotein nmb gene, 5-lipoxygenase activating protein gene, dihydropyrimidinase related protein-2 gene, cystatin A gene, Immunoglobulin transcription factor 2 gene, transforming growth factor beta-induced 68kD gene, myeloid DAP12-associating lectin gene, B cell linker protein gene, activated RNA polymerase II transcription cofactor 4 gene, enolase 1 alpha gene, 90 kDa heat shock protein gene, accessory proteins BAP31/BAP29 gene, isocitrate dehydrogenase 3 (NAD<sup>+</sup>) alpha gene, microsomal glutathione S-transferase 2 gene, GABA(A) receptor-associated protein gene, nicastrin gene, purinergic receptor (family A group 5) gene, Rho GDP dissociation inhibitor beta gene, MAD homolog 2 gene, MLN51 gene, interferon regulatory factor 4 gene, the fragments of these genes, a polynucleotide of SEQ ID NO:1 or its fragment, a polynucleotide of SEQ ID NO:2 or its fragment, a polynucleotide of SEQ ID NO:3 or its fragment, a polynucleotide of SEQ ID NO:4 or its fragment, a polynucleotide of SEQ ID NO:5 or its fragment, and a polynucleotide of SEQ ID NO:6 or its fragment ~~and the combination thereof.~~

13. (Withdrawn – Currently Amended) A microarray for identifying a lymphoid CD11c<sup>+</sup> dendritic cell comprising ~~a lymphoid CD11c<sup>+</sup> dendritic cell-specific nucleotide sequence~~, immobilized on a solid surface[[:]],

~~wherein said lymphoid CD11c<sup>+</sup> dendritic cell-specific nucleotide sequence is selected from the group consisting of~~ the combination of 5-lipoxygenase activating protein gene or its fragment, dihydropyrimidinase related protein-2 gene or its fragment, and interferon regulatory factor 4 gene or its fragment ~~and the combination thereof.~~

14. (Currently Amended) A microarray for identifying a myeloid monocyte-derived dendritic cell comprising ~~a myeloid monocyte-derived dendritic cell-specific nucleotide sequence~~ immobilized on a solid surface[[:]],

~~wherein said myeloid monocyte-derived dendritic cell-specific nucleotide sequence is selected from the group consisting of~~ the combination of thymus and activation-regulated chemokine gene or its fragment, dihydropyrimidinase related protein-2 gene or its fragment, lysosomal acid lipase or its fragment, calmodulin gene or its fragment, interferon regulatory factor 4 gene or its fragment, and DC-Lamp gene or its fragment ~~and the combination thereof.~~

15. (Withdrawn – Currently Amended) A microarray for identifying a myeloid CD1a<sup>+</sup> dendritic cell comprising ~~a myeloid CD1a<sup>+</sup> dendritic cell-specific nucleotide sequence~~ immobilized on a solid surface[[:]],

~~wherein said myeloid CD1a<sup>+</sup> dendritic cell-specific nucleotide sequence is~~  
~~selected from the group consisting of~~ the combination of a polynucleotide of SEQ ID  
NO:2 or its fragment, a polynucleotide of SEQ ID NO:3 or its fragment, a polynucleotide  
of SEQ ID NO:5 or its fragment, S100 calcium-binding protein beta gene or its fragment,  
matrix metalloproteinase 12 gene or its fragment, thymus and activation-regulated  
chemokine gene or its fragment, CD1B antigen gene or its fragment, CD20-like  
precursor gene or its fragment, MHC class II HLA-DQ-alpha chain gene or its fragment,  
osteopontin gene or its fragment, 5-lipoxygenase activating protein gene or its fragment,  
monocyte chemotactic proteins 4 gene or its fragment, lysosomal acid lipase gene or its  
fragment, cystatin A gene or its fragment, annexin A2 gene or its fragment, vesicle-  
associated membrane protein 8 gene or its fragment, MHC class II HLA-DM-alpha chain  
gene or its fragment, DORA protein gene or its fragment, DC-Lamp gene or its  
fragment, Mannose receptor (CD206) gene or its fragment, and Langerin (CD207) gene  
or its fragment ~~and the combination thereof.~~

16. (Withdrawn – Currently Amended) A microarray for identifying a myeloid  
CD14<sup>+</sup> dendritic cell comprising, ~~a myeloid CD14<sup>+</sup> dendritic cell-specific nucleotide~~  
~~sequence-immobilized on a solid surface[[:]]~~,

~~wherein said myeloid CD14<sup>+</sup> dendritic cell-specific nucleotide sequence is~~  
~~selected from the group consisting of~~ the combination of a polynucleotide of SEQ ID  
NO:2 or its fragment, S100 calcium-binding protein beta gene or its fragment, myosin  
phosphatase target subunit 1 gene or its fragment, CD20-like precursor gene or its  
fragment, Ig superfamily protein gene or its fragment, glycoprotein nmb gene or its

fragment, osteopontin gene or its fragment, 5-lipoxygenase activating protein gene or its fragment, mannose receptor C type 1 gene or its fragment, monocyte chemotactic proteins 4 gene or its fragment, RNase A family 1 (RNase 1) gene or its fragment, lysosomal acid lipase gene or its fragment, cystatin A gene or its fragment, monocyte chemotactic proteins 1 (MCP 1) gene or its fragment, transforming growth factor beta-induced 68kD gene or its fragment, ferritin light polypeptide gene or its fragment, vesicle-associated membrane protein 8 gene or its fragment, and Mannose receptor (CD206) gene or its fragment ~~and the combination thereof.~~

Claim 17. (Canceled)

18. (Withdrawn – Currently Amended) A microarray for identifying a maturation stage of a myeloid monocyte-derived dendritic cell comprising, ~~a nucleotide sequence~~ immobilized on a solid surface~~[[;]]~~.

~~wherein said nucleotide sequence is selected from the group consisting of the~~ combination of thymus and activation-regulated chemokine gene or its fragment, dihydropyrimidinase related protein-2 gene or its fragment, interferon regulatory factor 4 gene or its fragment, and DC-Lamp gene or its fragment ~~and the combination thereof.~~

19. (Withdrawn – Currently Amended) A microarray for identifying a maturation stage of a myeloid CD1a<sup>+</sup> dendritic cell comprising, ~~a nucleotide sequence~~ immobilized on a solid surface~~[[;]]~~.

~~wherein said nucleotide sequence is selected from the group consisting of the~~  
combination of a polynucleotide of SEQ ID NO:2 or its fragment, a polynucleotide of  
SEQ ID NO:3 or its fragment, a polynucleotide of SEQ ID NO:5 or its fragment, S100  
calcium-binding protein beta gene or its fragment, matrix metalloproteinase 12 gene or  
its fragment, thymus and activation-regulated chemokine gene or its fragment, CD1B  
antigen gene or its fragment, CD20-like precursor gene or its fragment, MHC class II  
HLA-DQ-alpha chain gene or its fragment, osteopontin gene or its fragment, monocyte  
chemotactic proteins 4 gene or its fragment, lysosomal acid lipase gene or its fragment,  
cystatin A gene or its fragment, transforming growth factor beta-induced 68kD gene or  
its fragment, annexin A2 gene or its fragment, vesicle-associated membrane protein 8  
gene or its fragment, DORA protein gene or its fragment, DC-Lamp gene or its  
fragment, and Langerin (CD207) gene or its fragment ~~and the combination thereof.~~

20. (Withdrawn – Currently Amended) A microarray for identifying a maturation  
stage of a myeloid CD14<sup>+</sup> dendritic cell comprising, ~~a nucleotide sequence immobilized~~  
on a solid surface[[:]],

~~wherein said nucleotide sequence is selected from the group consisting of the~~  
combination of a polynucleotide of SEQ ID NO:2 or its fragment, S100 calcium-binding  
protein beta gene or its fragment, CD20-like precursor gene or its fragment, Ig  
superfamily protein gene or its fragment, glycoprotein nmb gene or its fragment,  
osteopontin gene or its fragment, 5-lipoxygenase activating protein gene or its fragment,  
mannose receptor C type 1 gene or its fragment, monocyte chemotactic proteins 4 gene  
or its fragment, RNase A family 1 gene or its fragment, lysosomal acid lipase gene or its

fragment, cystatin A gene or its fragment, monocyte chemotactic proteins 1 gene or its fragment, transforming growth factor beta-induced 68kD gene or its fragment, ferritin light polypeptide gene or its fragment, vesicle-associated membrane protein 8 gene or its fragment, and Mannose receptor (CD206) gene or its fragment ~~and the combination thereof.~~